

**Title II Project Application**  
**Medford District Resource Advisory Committee**

**1. Project Number** (Assigned by federal unit): 116-416 **AMOUNT REQUESTED:** \$11,352.00  
2<sup>nd</sup> year of a 2 year project

**2. Project Name:** Bear Creek Tree Planting

**3. County:** Jackson

**4. Project Sponsor:** Rogue Valley Council of Governments

**5. Date:** April 15, 2003

**6. Sponsors Phone # :** 541-664-6676 x.211 Allison Dew

**7. Sponsor's E-mail:** charper@rvcog.org

**8. Project Location** (attach project area map)

- a. 4<sup>th</sup> Field Watershed Name and HUC #(if known): Middle Rogue River 17100308  
b. 5<sup>th</sup> Field Watershed Name and HUC #(if known): Bear Creek Watershed 17100308-01  
c. Legal Location: approximately 122°52'30", 42°22'30"
- |          |           |       |           |            |                 |
|----------|-----------|-------|-----------|------------|-----------------|
| Township | <u>37</u> | Range | <u>2W</u> | Section(s) | <u>11A, 102</u> |
| Township | <u>37</u> | Range | <u>2W</u> | Section(s) | <u>12C, 301</u> |
| Township | <u>37</u> | Range | <u>2W</u> | Section(s) | <u>12B, 401</u> |
| Township | <u>37</u> | Range | <u>2W</u> | Section(s) | <u>12B, 502</u> |
| Township | <u>37</u> | Range | <u>2W</u> | Section(s) | <u>12C, 805</u> |
| Township | <u>37</u> | Range | <u>1W</u> | Section(s) | <u>04, 301</u>  |
| Township | <u>38</u> | Range | <u>1W</u> | Section(s) | <u>04, 401</u>  |
| Township | <u>38</u> | Range | <u>1W</u> | Section(s) | <u>05, 601</u>  |
| Township | <u>38</u> | Range | <u>1W</u> | Section(s) | <u>05, 609</u>  |
| Township | <u>38</u> | Range | <u>1W</u> | Section(s) | <u>09A, 302</u> |
| Township | <u>38</u> | Range | <u>1W</u> | Section(s) | <u>15A, 500</u> |
| Township | <u>38</u> | Range | <u>1W</u> | Section(s) | <u>15D, 301</u> |
| Township | <u>38</u> | Range | <u>1E</u> | Section(s) | <u>30, 4001</u> |
| Township | <u>38</u> | Range | <u>1E</u> | Section(s) | <u>30, 4000</u> |
| Township | <u>38</u> | Range | <u>1E</u> | Section(s) | <u>31B, 200</u> |
| Township | <u>38</u> | Range | <u>1E</u> | Section(s) | <u>31B, 300</u> |
| Township | <u>38</u> | Range | <u>1E</u> | Section(s) | <u>32, 1401</u> |
| Township | <u>38</u> | Range | <u>1E</u> | Section(s) | <u>32, 204</u>  |
- d. BLM District Medford  
e. BLM Resource Area Ashland  
f. National Forest Rogue  
g. Forest Service District Ashland  
h. State / Private / Other lands involved? ☒ Yes    No

**9. Statement of Project Goals and Objectives:**

The purpose of this project is to implement a riparian planting program on the mainstem of Bear Creek. Through local youth programs and volunteer planting events approximately 7,500 native tree and shrub species will be planted in several phases. The project will improve watershed conditions by decreasing water temperature and sedimentation, displacing noxious or invasive plant species, stabilizing stream banks, and restoring natural channel morphology. Planting coniferous species in the riparian area will provide large woody debris to the stream channel and create stream diversity and quality habitat for fish populations, which spawn and rear in Federally managed forest lands. Establishing a mature plant community will also aid in erosion control, keystone species return and control of the spread of exotic species such as scotch broom and Himalayan blackberry. Restoration efforts will benefit a wide-range of species and local communities by not only improving aquatic and riparian habitat for native species but also improving public understanding of our watershed's needs.

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**10. Project Description:** (Provide concise description of project and attach map.) The purpose of this project is to continue implementation of the Bear Creek riparian planting program<sup>a</sup>. Phase II will: 1) Implement prescriptions for planting the second year, specifically plant terraces void of coniferous species. 2) Restock previously planted sites to help maintain the 350 trees per acre goal, and 4) Implement a maintenance and monitoring program.

RVCOG has worked with representatives from Jackson County Roads and Parks, the City of Medford and Jackson County fairgrounds to select appropriate planting areas (see attached photos, for site maps refer to 2002 Title II Grant Application). The project will target planting terraces within the riparian corridor that **will not** require a lot of site preparation. Planting prescriptions focused on sites with deep soils, free of brush, and easy to plant, (approximately 800 trees per acre will be planted to meet a stocking level goal of 350 trees per acre after five years). Conifer species (Ponderosa Pine and Incense Cedar) will be the main stock types with a complement of broadleaf plantings (big leaf maple and red alder). Jackson County Roads & Parks, the Bear Creek Greenway Committee, Medford Parks and Recreation Department have selected priority areas where there is a lack of riparian cover and a need for conifers. Specifically, RVCOG will meet these goals through implementation of the following project elements:

**Site Prescriptions**: A survey of previously planted riparian areas will be conducted and the information collected will be used to 1) Identify terraced sites for planting conifers, 2) Prescribe specific planting requirements for the identified terraced areas, 3) Prioritize restocking needs for previously planted areas.

RVCOG, in partnership with Dave Henneman, Reforestation Specialist with the Bureau of Land Management (BLM), will assess riparian conditions after the first year planting and develop planting prescriptions for the second year for the three sections on Bear Creek. RVCOG will continue to work with public works directors from local communities and Jackson County to provide an opportunity for input in areas of special need.

**Site Preparation & Planting**: Once the second-year site prescriptions are completed, site preparation and planting will begin. The Oregon Aquatic Habitat Restoration and Enhancement Guide will be met by considering / implementing *Riparian Vegetation Planting* pages 19 and 20 directions. All appropriate permits will be obtained and cooperative agreements will be developed with landowners and land managers. NRYCC crews will complete site preparation. REAL Corps will provide oversight for volunteer and youth planting activities. BLM and RVCOG will develop site-specific effectiveness monitoring and maintenance plans for each planting site. An additional priority will be to provide information to watershed citizens on the value of riparian areas.

**Maintenance and Monitoring Program**:

BLM and RVCOG will develop site-specific effectiveness monitoring and maintenance plans for each planting site. The Oregon Aquatic Habitat Restoration and Enhancement Guide will be met by considering / implementing *Riparian Brush and Weed Control* pages 24 and 25 directions. Project maintenance will include replanting sites to maintain a stocking level goal of 350 trees per acre, management of competing vegetation, addressing animal damage and providing water as necessary. Project monitoring will include site location, date of planting/monitoring, survey of seedling survival and growth, animal damage, competition from other vegetation and general site condition descriptions photo points.

An additional priority will be to provide information to watershed citizens on the value of riparian areas.

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<sup>a</sup> 2003 Title II funds were used to implement Phase I of the project. Phase I focused on developing site prescriptions for three areas along Bear Creek. Work on this phase is currently underway and planting will be implemented in Spring 2004 focusing on using native shrub and willow species. Site prescriptions will focus on areas with a high potential for stream bank erosion where applicable. For additional information refer to the 2002 Title II grant application.

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**11. Coordination of this project with other related project(s) on adjacent lands?** ☒ **Yes** **No**  
**If yes, then describe.** The Bear Creek Greenway Committee will provide project oversight and technical assistance. The U. S. Bureau of Land Management will provide planting site prescriptions, tree seedlings, grass seed, mulch, and seedling storage for terraced sites in the riparian area. The project will also coordinate with ongoing projects such as : BLM fire projects, Jackson County Fairgrounds planting projects, the Medford Urban Renewal Association Bear Creek Master Plan and the Baby Bear Creek Non-point Source Pollution Reduction Project.

**12. How does proposed project meet purposes of the Legislation?** [Sec. 203(b)(1)]

- ☒ Improves maintenance of existing infrastructure. [Sec. 2(b)]
- ☒ Implements stewardship objectives that enhance forest ecosystems. [Sec. 2(b)]
- ☒ Restores and improves land health. [Sec. 2(b)]
- ☒ Restores water quality. [Sec. 2(b)]

**13. Project Type** (check one) [Sec. 203(b)(1)]

- |  |  |
|--|--|
| <input type="checkbox"/> Road Maintenance [Sec. 2(b)(2)(A)]                                  | <input type="checkbox"/> Trail Maintenance [Sec. 2(b)(2)(A)]                       |
| <input type="checkbox"/> Road Decommission/Obliteration [Sec. 2(b)(2)(A)]                    | <input type="checkbox"/> Trail Obliteration [Sec. 2(b)(2)(A)]                      |
| <input type="checkbox"/> Other Infrastructure Maintenance (specify): _____ [Sec. 2(b)(2)(A)] |  |
| <input type="checkbox"/> Soil Productivity Improvement [Sec. 2(b)(2)(B)]                     | <input checked="" type="checkbox"/> Forest Health Improvement [Sec. 2(b)(2)(C)]    |
| <input checked="" type="checkbox"/> Watershed Restoration & Mntc. [Sec. 2(b)(2)(D)]          | <input checked="" type="checkbox"/> Wildlife Habitat Restoration [Sec. 2(b)(2)(E)] |
| <input checked="" type="checkbox"/> Fish Habitat Restoration [Sec. 2(b)(2)(E)]               | <input checked="" type="checkbox"/> Control of Noxious Weeds [Sec. 2(b)(2)(F)]     |
| <input checked="" type="checkbox"/> Reestablish Native Species [Sec. 2(b)(2)(G)]             |  |
| <input type="checkbox"/> Other Project Type (specify) [Sec. 2(b)(2)]: _____                  |  |

**14. Measure of Project Accomplishments/Expected Outcomes** [Sec. 203(b)(5)] **(Phase I and II)**

- |                                    |  |
|------------------------------------|--|
| a. Total Acres: <u>75</u>          | b. Total Miles: <u>7 1/2</u>   |
| c. No. Structures: <u>0</u>        | d. Estimated People Reached (for environmental education projects): <u>200</u> |
| e. No. of Laborer Days: <u>300</u> |  |
| f. Other (specify): _____          |  |

**15. Duration of Project and Estimated Completion Date** [Sec. 203(b)(2)]: Site surveys and planting prescriptions on previously planted sites will begin July 1, 2004 and be completed by August 1, 2004. Phase II site preparation and planting will begin September 1, 2004 and be complete November 1, 2004. Initial photopoints will be established November 2004. Seedling survival/growth, animal damage, vegetative competition monitoring plots and maintenance will be established Spring 2005, surveys and maintenance will continue for five years – January 2010.

**16. Target Species Benefitted:** (if applicable) Anadromous fish, including threatened coho salmon, and other riparian-dependent fish such as the Pacific lamprey, amphibians, reptiles, mammals, birds and native plants.

**17. How will cooperative relationships among people that use federal lands be improved?** [Sec. 2(b)(3)] RVCOG will work closely with federal agencies, community nonprofit agencies, watershed groups, and educators to assist with their forest conservation and riparian planting projects. The goal is to have several educational events such as tree planting, stream clean-ups and riparian workshop(s) and presentations. These events will be used to educate watershed citizens on the value of native plant communities and establishment of riparian areas. Additional information will be provided to citizens on how to improve the ecological health of their lands. Signs will be placed at planting sites viewable by the public.

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**18. How is this project in the best public interest?** [Sec. 203(b)(7)] **Identify benefits to communities?**  
The Bear Creek Riparian Planting Project provides the following benefits to the Bear Creek watershed communities:

**A. Implementing actions suggested in the Bear Creek Sub-Basin Watershed Assessment and Action Plan:**

1. The project will *increase riparian/stream habitat diversity and complexity within the watershed* by:
  - Providing future large woody debris to the channel and surrounding area, increasing habitat complexity and pool to riffle ratios.
  - Increasing the structural and species diversity found with mature native riparian vegetation.
  - Providing nutrients for aquatic species.
  - Increasing riparian vegetation width and connectivity to adjacent corridors and upland habitats.
  - Restoring the structural and species diversity and integrity necessary for native riparian dependent obligate fauna.
2. The project will *initiate activities and actions to attain DEQ water quality standards for Bear Creek and tributaries, particularly during late summer and fall periods. Particular efforts should be directed to decrease mainstem water temperatures levels, lower pH, and raise DO* by:
  - Lowering water temperatures by providing shade to waterways.
  - Increasing bank stability through multi-species root development.
  - Reducing and capturing sediments.
  - Reducing the amount of algal growth by decreasing stream temperatures.
  - Improving channel dynamics to encourage a desirable channel depth to width ratio over time.
  - Reducing urban heat island effect in urbanizing areas of the watershed.
3. The project will *initiate public information program to educate citizens of on-going efforts to protect Bear Creek. Instill the need for personal participation by fostering a sense of public responsibility for the Bear Creek environment* by:
  - Providing public and private landowners with the information about the importance of riparian areas and how they can improve the ecological health of their lands.
  - Promoting stewardship of public lands through providing opportunities for community groups and volunteers to assist with planting projects.

**B. Implementing actions suggested in the Bear Creek Water Quality Management Plan:**

GOAL: Maintain water quality to protect the beneficial uses that are currently being met

OBJECTIVE: Areas that have been identified as meeting shade potential are to be protected. In areas where shade potential is achievable, take steps to increase riparian vegetation as per the temperature TMDL.

1. The project will *improve aquatic and riparian habitat for anadromous fish and other species over time* by:
  - Providing future large woody debris to the channel and surrounding area, increasing habitat complexity and pool to riffle ratios.
  - Increasing the structural and species diversity found with mature native riparian vegetation.
  - Providing nutrients for aquatic species.
  - Increasing riparian vegetation width and connectivity to adjacent corridors and upland habitats.

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- Restoring the structural and species diversity and integrity necessary for native riparian dependent obligate fauna.

2. The project *will improve water quality over time* by:

- Lowering water temperatures by providing shade to waterways.
- Increasing bank stability through multi-species root development.
- Reducing and capturing sediments.
- Reducing the amount of algal growth by decreasing stream temperatures.
- Improving channel dynamics to encourage a desirable channel depth to width ratio over time.
- Reducing urban heat island effect in urbanizing areas of the watershed.

3. The project *will improve public understanding of the importance of healthy riparian areas* by:

- Providing public and private landowners with the information about the importance of riparian areas and how they can improve the ecological health of their lands.
- Promoting stewardship of public lands through providing opportunities for community groups and volunteers to assist with planting projects.

**19. How does project benefit federal lands/resources?**

The project will benefit federal lands/ resources by improving water quality and habitat in the lowland reaches of Bear Creek, thereby improving conditions for anadromous salmonids and other species that use riparian corridors for migration through private, local and state agency managed lands up to the federal lands. The watershed citizens will also learn to value and protect riparian corridors and forests, and gain a greater appreciation and sense of stewardship for natural areas, including federal forest lands and resources.

**20. Status of Project Planning**

- |   |   |  |
|---|---|--|
| a. NEPA Complete:                             | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No   |
| b. If No, give est. date of completion: ___   | Not applicable <u>X</u>                 |  |
| c. NMFS Sec. 7 ESA Consultation Complete:     | <input type="checkbox"/> Yes            | <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable |
| d. USFWS Sec. 7 ESA Consultation Complete:    | <input type="checkbox"/> Yes            | <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable |
| e. Survey & Manage Complete:                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable |
| f. DSL/ODFW* Permits Obtained:                | <input type="checkbox"/> Yes            | <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable |
| g. DLS/COE* 404 Fill/Removal Permit Obtained: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable |
| h. SHPO* Concurrence Received:                | <input type="checkbox"/> Yes            | <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable |
| i. Project Design(s) Completed:               | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No  |

\* DSL = Dept. of State Lands, ODFW = Oregon Dept. of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer

**21. Proposed Method(s) of Accomplishment**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Contract   | <input type="checkbox"/> Federal Workforce     |
| <input checked="" type="checkbox"/> County Workforce   | <input checked="" type="checkbox"/> Volunteers |
| <input checked="" type="checkbox"/> Other (specify): <u>Natural Resource Youth Conservation Corps, Regional Ecosystem Applied Learning Corps</u> |  |

**22. Will the Project Generate Merchantable Materials? ( Sec. 204(e)(3))**

- ☐ Yes ☒ No

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**23. Anticipated Project Costs** [Sec. 203(b)(3)]

- a. Total County Title II Funds Requested: \$ 11,352  
b. Is this a multi-year funding request? ☐ Yes ☒ No If yes, then display by fiscal year  
c. FY04 Request: \$11,352.00

<b>Item</b>	<b>Fed. Agency Appropriated Contribution [Sec. 203(b)(4)]</b>	<b>Requested County Title II Contribution [Sec. 203(b)(4)]</b>	<b>Other Contributions [Sec. 203(b)(4)]</b>	<b>Total Available Funds</b>
24. Field Work & Site Surveys	3,800	1,000	17,594	22,394.00
25. NEPA & Sec.7 ESA Consultation		0		0
26. Permit Acquisition	1,000	0	1,000	2,000
27. Project Design & Engineering	4,800	500	1,000	6,300
28. Contract Preparation	400	450	550	1,400
29. Contract Administration	1,000	1,000	2,000	4,000
30. Contract Cost	6,966.80	1,270	8,852	13,254
31. Workforce Cost	1,200	500	3,909	5,609
32. Materials & Supplies	13,505	1,000	5,500	20,005
33. Monitoring	4,600	4,600	2,000	11,200
34. Other				
35. Project Subtotal	33,512.80	10,320	24,811	87,162
36. Indirect Costs (Overhead) (per year for multiple year projects)	5,036.20	1,032	2,000	8,068.20
37. Total Cost Estimate	<b>\$42,308</b>	<b>\$11,352</b>	<b>\$44,405</b>	<b>\$95,230.20</b>

**38. Identify Source(s) of Other Funding in Column C. Above** [Sec. 203(b)(4)]

Five Star Restoration Challenge Grant	\$10,000
National Fish & Wildlife Foundation	\$12,234
Jackson County	\$5,000
BLM	\$11,455
Volunteers	\$8,250
City of Medford	\$1,344
Pacific Power	\$2,000
City of Central Point	\$4,000
U.S. Forest Service	\$3,350

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**39. Monitoring Plan** (Sec.203(b)(6))

- a. **What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions?** [Sec. 203(b)(6)] **Who will be responsible for this monitoring item?** RVCOG will serve as the lead agency for site maintenance when planting is completed. Federal, state and local agencies, local watershed groups and youth programs will be asked to assist with site maintenance for five years. Project maintenance will include replanting sites to maintain a stocking level goal of 350 trees per acre, management of competing vegetation, addressing animal damage and providing water as necessary. RVCOG will maintain all records related to the project and will develop a planting site database.

A monitoring/ maintenance plan will be developed for each planting site. Initial surveys will be conducted prior to the first planting and follow the final planting. Monitoring forms will be developed for each site and will provide the following information: site location, date of planting/monitoring, survey of seedling survival and growth, animal damage, competition from other vegetation and general site condition descriptions. Photo points will also be established to document visual changes in vegetation, habitat and stream conditions over time. Monitoring will continue for a five-year period following planting.

- b. **How will the project be evaluated to determine how well the proposed project contributes towards local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps?** [Sec. 203(b)(6)] **Who will be responsible for this monitoring item?** RVCOG will work with the NRYCC on this project. REAL Corps crews will provide guidance and oversight of NRYCC crews and volunteers. The REAL Corps is a stem of Americorps consisting of university students studying natural resources. The group has considerable experience with riparian restoration techniques and management and can provide mentorship to the NRYCC youth.
- c. **What methods and measures of evaluation will be established to determine how well the proposed project improves the use of, or added value to, any products removed from National Forest System lands consistent with the purposes of this Act?** [Sec. 203(b)(6) and Sec. 204(e)(3)] **Who will be responsible for this monitoring item?** Products will not be removed from National Forest Lands through this project.
- d. **Identify total funding needed to carry out specified monitoring tasks** (Table 1, Item 33)  
Amount: \$11,200.00

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05/27/2003 13:07 FAX 541 664 7927

ROGUE VLY C. OF GOV'TS

002

Rogue Valley Council of Governments  
155 North First Street  
Central Point, OR 97502

Dear Ms. Dew;

The Bureau of Land Management (BLM) intends to continue support of efforts to improve water quality in the Bear Creek Watershed. We welcome the involvement of RVCOG, and the progress towards coordination of restoration efforts and resources you have made. In Fiscal Year 2003 (Oct. 1st, 2002 through Sept. 30th, 2003, some or all of the resources listed below will be made available to support RVCOG sponsored projects in the Bear Creek Basin. It is possible that other types of assistance may be available, as needs arise, in 2003 and beyond.

Item and number	Cost per unit	BLM Cost-share (%)	\$ amount per year
Conifer Seedlings - 15M annually	\$240/M	50%	\$1,800.00
Native shrubs & hardwoods -10M annually	\$350/M	50%	\$1,750.00
Materials/Supplies (mulch/shades/tools, etc.)	*	100%	\$1,200.00
Large Volume Containers (conifer & Hrwd)	\$3.30 each	100%	\$825.00
Native grass & forb seed	\$9.00/Lb..	100%	\$1,400.00
Cooler storage space (800 sq. ft.)	\$0.85	100%	\$680.00
Labor, transp. & technical assistance	\$3800	100%	\$3,800.00

\* The cost of materials and supplies varies according to the kinds and amounts requested. The dollar amount listed is an estimate of the value of supplies to be provided by BLM.

The plant materials, supplies, cooler storage, and personnel time detailed above total \$11,455.00 and are considered to be conservative estimates of the level of support envisioned.

Dave Henneman  
Bureau of Land Management  
OR/WA Plant Production Coordinator



Secure Rural Schools and Community Self-Determination Act of 2000  
Public Law 106-393  
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